

Title (en)
Imaging device

Title (de)
Abbildungsvorrichtung

Title (fr)
Dispositif d'imagerie

Publication
EP 2112821 A2 20091028 (EN)

Application
EP 09005385 A 20090415

Priority
JP 2008109936 A 20080421

Abstract (en)
An imaging device includes an imaging sensor, a switching section, and a controlling section. The imaging sensor includes a light receiving surface to which light receiving elements capable of addressing reading are arranged, and having, on the light receiving surface, an imaging area capturing a subject image and an optical black area outputting a signal of a dark current component, the optical black area being an area in which the light receiving elements are covered with a light shielding member. The switching section switching to a first state which a luminance flux is incident on the light receiving surface and a second state which prevents the incident of the luminance flux on the light receiving surface. The controlling section reads a signal level by each partial area at the optical black area when a dark image is captured in the second state after capturing a normal image in the first state, sequentially compares with the signal level at a corresponding position of the normal image, and controls a exposure time of the dark image according to the comparison result.

IPC 8 full level
H04N 5/217 (2006.01); **H04N 5/232** (2006.01); **H04N 5/335** (2006.01); **H04N 5/353** (2011.01); **H04N 5/361** (2011.01); **H04N 5/367** (2011.01); **H04N 5/369** (2011.01); **H04N 5/374** (2011.01)

CPC (source: EP US)
H04N 23/81 (2023.01 - EP US); **H04N 25/63** (2023.01 - EP US)

Citation (applicant)
JP 2005079948 A 20050324 - PENTAX CORP

Citation (examination)
• US 6829007 B1 20041207 - BILHAN HAYDAR [US], et al
• US 2005242269 A1 20051103 - HAYASHI TAKESHI [JP], et al
• JP 2004080168 A 20040311 - RICOH KK
• US 2006044424 A1 20060302 - SHIRAI TAKAHIRO [JP], et al
• US 2007035642 A1 20070215 - TAKAHASHI KAZUHIRO [JP], et al

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CN108259789A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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EP 2112821 A2 20091028; **EP 2112821 A3 20100609**; JP 2009260871 A 20091105; US 2009262224 A1 20091022; US 8259197 B2 20120904

DOCDB simple family (application)
EP 09005385 A 20090415; JP 2008109936 A 20080421; US 38557909 A 20090413